

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

| | | | |
|---|------------------------|--------------------------|------------------|
| Substitute for form 1449WPTO | | Complete if Known | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | Application Number | 10/774,018 |
| | | Filing Date | February 6, 2004 |
| | | First Named Inventor | Kottwitz et al. |
| | | Art Unit | Not yet known |
| | | Examiner Name | Not yet known |
| Sheet 1 of 4 | Attorney Docket Number | HENK-0060/H4714 | |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|----------|--|--------------------------------|--|---|
| Examiner Initials* | Cite No. | Document Number (Number - Kind Code if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | 1 | US-1,227,374 | 05/22/1917 | Boidin et al. | |
| | 2 | US-5,972,873 | 10/26/1999 | Nielsen et al. | |
| | 3 | US-5,723,323 | 03/03/1998 | Kauffman et al. | |
| | 4 | US-3,623,957 | 11/30/1971 | Feldman | |
| | 5 | US-4,264,738 | 04/28/1981 | Stepanov et al. | |
| | 6 | US-6,075,001 | 06/13/2000 | Wilde | |
| | 7 | US-4,664,839 | 05/12/1987 | Rieck | |
| | 8 | US-5,614,161 | 03/25/1997 | Wilkens et al. | |
| | 9 | US-6,187,055 B1 | 02/13/2001 | Kottwitz et al. | |
| | 10 | US-5,783,545 | 07/21/1998 | Paatz et al. | |
| | 11 | US-3,893,929 | 07/08/1975 | Basadur | |
| | 12 | US-4,116,885 | 09/26/1978 | Derstadt et al. | |
| | 13 | US-6,379,394 B1 | 04/30/2002 | Chilou et al. | |
| | 14 | US-5,730,960 | 03/24/1998 | Stein et al. | |
| | 15 | US-6,192,960 B1 | 02/27/2001 | Metzger et al. | |
| | 16 | US-5,705,169 | 01/06/1998 | Stein et al. | |
| | 17 | US-5,962,613 | 10/05/1999 | Schade et al. | |
| | 18 | US-6,083,898 | 07/04/2000 | Meixner et al. | |
| | 19 | US-5,739,091 | 04/14/1998 | Kiesser et al. | |
| | 20 | US-6,417,152 B1 | 07/09/2002 | Kottwitz et al. | |
| | 21 | US-5,318,733 | 06/07/1994 | Carduck et al. | |
| | 22 | US-5,616,550 | 04/01/1997 | Kruse et al. | |

| FOREIGN PATENT DOCUMENTS | | | | | |
|--------------------------|----------|---|--------------------------------|---------|---|
| Examiner Initials* | Cite No. | Foreign Patent Document Country Code* Number* - Kind Code* (if known) | Publication Date MM-DD-YYYY | Country | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | 23 | WO96/23874 A1 | 08/08/1996 | PCT | |
| | 24 | WO00/60059 A2 | 10/12/2000 | PCT | |
| | 25 | WO97/41213 A1 | 11/06/1997 | PCT | |
| | 26 | EP 0 636 693 A2 | 02/01/1995 | Europe | |
| | 27 | EP 0 628630 B1 | 05/06/1998 | Europe | |
| | 28 | WO 94/19454 A2 | 09/01/1994 | PCT | |
| | 29 | EP 0 727 485 B1 | 09/17/2003 | Europe | |
| | 30 | WO 96/02633 A1 | 02/01/1996 | PCT | |
| | 31 | WO 95/26397 A1 | 10/05/1995 | PCT | |
| | 32 | WO 97/00324 A1 | 01/03/1997 | PCT | |
| | 33 | EP 0 670 367 B1 | 08/11/2003 | Europe | |
| | 34 | WO 98/13481 A1 | 04/02/1998 | PCT | |
| | 35 | WO 96/23874 A1 | 08/08/1996 | PCT | |
| | 36 | WO 96/23873 A1 | 08/08/1996 | PCT | |
| | 37 | WO 99/20768 A1 | 04/29/1999 | PCT | |
| | 38 | WO94/02597 A1 | 02/03/1994 | PCT | |
| | 39 | WO99/02702 A1 | 01/21/1999 | PCT | |
| | 40 | WO99/23211 A1 | 05/14/1999 | PCT | |
| | 41 | WO97/43424 A1 | 11/20/1997 | PCT | |
| | 42 | DE 40 131 42 A1 | 10/31/1991 | Germany | |
| | 43 | WO 99/43793 A1 | 09/02/1999 | PCT | |
| | 44 | WO 99/57252 A1 | 11/11/1999 | PCT | |
| | 45 | WO 99/57250 A1 | 11/11/1999 | PCT | |

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid CMB control number.

| | | | |
|---|------------------------|--------------------------|------------------|
| Substitute for form 1449A-PTO | | Complete if Known | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | Application Number | 10/774,018 |
| | | Filing Date | February 6, 2004 |
| | | First Named Inventor | Kotwitz et al. |
| | | Art Unit | Not yet known |
| | | Examiner Name | Not yet known |
| Sheet 2 of 4 | Attorney Docket Number | HENK-0050/H4714 | |

| | | | | | |
|----|------------------|------------|---------------------|--|---|
| 46 | WO 99/57254 A1 | 11/11/1999 | PCT | | |
| 47 | EP 0 208 491 B1 | 08/25/1993 | Europe | | |
| 48 | WO 97/41213 A1 | 11/06/1997 | PCT | | |
| 49 | WO 98/05764 A1 | 02/12/1998 | PCT | | |
| 50 | WO 97/35966 A1 | 10/02/1997 | PCT | | |
| 51 | EP 0 590 689 B1 | 05/22/2002 | Europe (US5723323) | | |
| 52 | EP 0 229 046 B1 | 05/04/1994 | Europe (US5723323) | | |
| 53 | WO 98/42832 A1 | 10/01/1998 | PCT | | |
| 54 | WO 96/23874 A1 | 08/08/1996 | PCT | | |
| 55 | WO 00/22103 A1 | 04/20/2000 | PCT | | |
| 56 | WO 99/58651 A1 | 11/18/1999 | PCT | | |
| 57 | EP 1 088 887 A1 | 04/04/2001 | Europe | | |
| 58 | WO 00/26354 A1 | 05/11/2000 | PCT | | |
| 59 | WO 99/63036 A1 | 12/09/1999 | PCT | | X |
| 60 | WO 99/63037 A1 | 12/09/1999 | PCT | | X |
| 61 | DE 196 16 693 A1 | 11/06/1997 | Germany (US6075001) | | X |
| 62 | DE 196 16 767 A1 | 11/06/1997 | Germany | | |
| 63 | EP 0 525 239 B1 | 07/09/1997 | Europe | | |
| 64 | WO 94/27970 A1 | 12/08/1994 | PCT | | |
| 65 | WO 94/28102 A1 | 12/08/1994 | PCT | | |
| 66 | WO 94/28103 A1 | 12/08/1994 | PCT | | |
| 67 | WO 95/00626 A1 | 01/05/1995 | PCT | | |
| 68 | WO 95/14759 A1 | 06/01/1995 | PCT | | |
| 69 | WO 95/17498 A1 | 06/29/1995 | PCT | | |
| 70 | DE 196 16 769 A1 | 11/06/1997 | Germany | | |
| 71 | DE 196 16 770 A1 | 11/06/1997 | Germany | | |
| 72 | WO 95/14075 A1 | 05/26/1995 | PCT | | |
| 73 | DE 44 43 177 A1 | 06/13/1996 | Germany | | |
| 74 | DE 197 09 284 A1 | 09/10/1998 | Germany | | |
| 75 | WO 99/63038 A1 | 12/09/1999 | PCT | | X |
| 76 | WO 99/63041 A1 | 12/09/1999 | PCT | | X |
| 77 | EP 0 164 514 B1 | 06/14/1989 | Europe (US4664839) | | |
| 78 | DE 196 01 063 A1 | 09/12/1996 | Germany (US5614161) | | |
| 79 | EP 0 472 042 A1 | 02/26/1992 | Europe | | |
| 80 | WO 97/25399 A1 | 07/17/1997 | PCT (US6187055) | | X |
| 81 | EP 0 755 944 B1 | 10/04/2001 | Europe | | |
| 82 | EP 0 736 084 B1 | 09/09/1998 | Europe (US5783545) | | X |
| 83 | DT 16 17 141 | 04/06/1972 | Germany (GB1154730) | | |
| 84 | GB 1 154 730 | 06/11/1969 | Great Britain | | |
| 85 | DT 22 00 911 | 10/25/1973 | Germany (GB1377092) | | |
| 86 | GB 1 377 092 | 12/11/1974 | Great Britain | | |
| 87 | DT 22 53 063 | 05/03/1973 | Germany (US3893929) | | |
| 88 | DE 28 57 292 A1 | 02/28/1980 | Germany (US4116885) | | |
| 89 | OE 33 24 258 A1 | 02/08/1984 | Germany (GB2123848) | | |
| 90 | GB 2 123 848 A | 02/08/1984 | Great Britain | | |
| 91 | EP 0 253 567 B1 | 12/05/1990 | Europe | | |
| 92 | EP 0 066 944 B1 | 11/20/1986 | Europe | | |
| 93 | EP 0 185 427 B1 | 03/04/1992 | Europe | | |
| 94 | EP 0 241 984 B1 | 03/16/1994 | Europe | | |
| 95 | EP 0 241 985 B1 | 01/23/1991 | Europe | | |
| 96 | EP 0 272 033 A2 | 06/22/1988 | Europe | | |
| 97 | EP 0 274 907 B1 | 08/12/1992 | Europe | | |
| 98 | EP 0 357 280 B1 | 02/28/1996 | Europe | | |
| 99 | WO 95/32232 A1 | 11/30/1995 | PCT | | |

| | | | | | |
|---|--|------------------------|--|--------------------------|--|
| Substitute for form 1449A/PTO <h2 style="text-align: center; margin: 0;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center; font-size: small;">(use as many sheets as necessary)</p> | | | | Complete if Known | |
| Sheet 3 of 4 | | Application Number | | 10/774,018 | |
| | | Filing Date | | February 6, 2004 | |
| | | First Named Inventor | | Kottwitz et al. | |
| | | Art Unit | | Not yet known | |
| | | Examiner Name | | Not yet known | |
| | | Attorney Docket Number | | HENK-0060/H4714 | |

| | | | | | |
|-----|------------------|------------|---------------------|--|---|
| 100 | WO 97/31085 A1 | 08/28/1997 | PCT (US6379394) | | |
| 101 | EP 0 728 749 A2 | 08/28/1996 | Europe | | |
| 102 | EP 0 693 471 B1 | 01/21/1998 | Europe (US5730960) | | |
| 103 | EP 0 818 450 A1 | 01/14/1998 | Europe (US6193960) | | |
| 104 | EP 0 694 521 B1 | 01/21/1998 | Europe (US5705169) | | |
| 105 | DE 197 12 033 A1 | 09/24/1998 | Germany (US5705169) | | |
| 106 | WO 95/12655 A1 | 05/11/1995 | PCT | | |
| 107 | WO 92/19707 A1 | 11/12/1992 | PCT | | |
| 108 | WO 98/13460 A1 | 04/02/1998 | PCT | | |
| 109 | EP 9 583 534 B1 | 03/05/1997 | Europe | | |
| 110 | WO 93/00418 A1 | 01/07/1993 | PCT | | |
| 111 | WO 00/01826 A2 | 01/13/2000 | PCT | | |
| 112 | WO 00/01831 A2 | 01/13/2000 | PCT | | |
| 113 | EP 0 378 261 B1 | 07/27/1994 | Europe | | |
| 114 | WO 97/05227 A1 | 02/13/1997 | PCT | | |
| 115 | DE 196 50 537 A1 | 06/10/1998 | Germany | | |
| 116 | WO 97/18287 A1 | 05/22/1997 | PCT | | |
| 117 | EP 0 965 268 B1 | 03/19/2003 | Europe | | |
| 118 | EP 0 028 865 B2 | 03/15/1989 | Europe | | |
| 119 | EP 0 378 262 B1 | 12/01/1993 | Europe | | |
| 120 | WO 99/43780 A1 | 09/02/1999 | PCT | | |
| 121 | WO 97/00932 A1 | 01/09/1997 | PCT | | |
| 122 | EP 0 828 762 B1 | 10/27/1999 | Europe (US5962613) | | |
| 123 | EP 0 702 712 B1 | 12/23/1998 | Europe | | |
| 124 | EP 0 587 550 B1 | 12/09/1998 | Europe | | |
| 125 | EP 0 581 751 B1 | 12/09/1998 | Europe | | |
| 126 | WO 97/43377 A1 | 11/20/1997 | PCT | | |
| 127 | WO 98/45396 A1 | 10/15/1998 | PCT | | |
| 128 | WO 98/17764 A1 | 04/30/1998 | PCT (US6083898) | | |
| 129 | WO 97/32958 A1 | 09/12/1997 | PCT | | |
| 130 | EP 0 780 466 B1 | 06/13/2001 | Europe | | |
| 131 | EP 0 080 748 B1 | 07/10/1985 | Europe | | |
| 132 | EP 0 533 239 B1 | 04/01/1998 | Europe | | |
| 133 | EP 0 080 223 B1 | 07/30/1986 | Europe | | |
| 134 | EP 0 856 058 B1 | 12/10/1997 | Europe (US5739091) | | |
| 135 | WO 96/31589 A1 | 10/10/1996 | PCT | | |
| 136 | EP 0 126 505 B1 | 01/07/1987 | Europe | | |
| 137 | WO 98/13462 A1 | 04/02/1998 | PCT | | |
| 138 | WO 98/13459 A1 | 04/02/1998 | PCT | | |
| 139 | WO 00/39306 A2 | 07/06/2000 | PCT | | |
| 140 | WO 99/06515 A1 | 02/11/1999 | PCT | | X |
| 141 | WO 99/06516 A1 | 02/11/1999 | PCT (US6417152) | | X |
| 142 | WO 00/42145 A1 | 07/20/2000 | PCT | | |
| 143 | DT 19 40 488 | 02/11/1971 | Germany (GB1263765) | | |
| 144 | GB 1 263 765 | 02/16/1972 | Great Britain | | |
| 145 | DT 21 21 397 | 11/16/1972 | Germany (GB1263765) | | |
| 146 | EP 0 006 638 B1 | 04/18/1984 | Europe | | |
| 147 | WO 91/02792 A1 | 03/07/1991 | PCT | | |
| 148 | EP 0 564 476 B1 | 04/26/1995 | Europe | | X |
| 149 | WO 94/23005 A1 | 10/13/1994 | PCT | | |
| 150 | WO 94/18314 A1 | 08/18/1994 | PCT | | |
| 151 | EP 0 486 592 B1 | 06/15/1994 | Europe (US5318733) | | X |
| 152 | EP 0 642 576 B1 | 07/10/1996 | Europe (US5616550) | | X |
| 153 | WO 97/24177 A1 | 07/10/1997 | PCT | | |

| | | | | | | | | | | | | | | | |
|--|------------------|---|---------------------|--------------------|------------|-------------|------------------|----------------------|-----------------|----------|---------------|---------------|---------------|------------------------|-----------------|
| Substitute for form 1449A/PTO <h2 style="text-align: center; margin: 0;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center; margin: 0;">(use as many sheets as necessary)</p> | | Complete if Known <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>10/774 018</td> </tr> <tr> <td>Filing Date</td> <td>February 6, 2004</td> </tr> <tr> <td>First Named Inventor</td> <td>Kottwitz et al.</td> </tr> <tr> <td>Art Unit</td> <td>Not yet known</td> </tr> <tr> <td>Examiner Name</td> <td>Not yet known</td> </tr> <tr> <td>Attorney Docket Number</td> <td>HENK-0060/H4714</td> </tr> </table> | | Application Number | 10/774 018 | Filing Date | February 6, 2004 | First Named Inventor | Kottwitz et al. | Art Unit | Not yet known | Examiner Name | Not yet known | Attorney Docket Number | HENK-0060/H4714 |
| Application Number | 10/774 018 | | | | | | | | | | | | | | |
| Filing Date | February 6, 2004 | | | | | | | | | | | | | | |
| First Named Inventor | Kottwitz et al. | | | | | | | | | | | | | | |
| Art Unit | Not yet known | | | | | | | | | | | | | | |
| Examiner Name | Not yet known | | | | | | | | | | | | | | |
| Attorney Docket Number | HENK-0060/H4714 | | | | | | | | | | | | | | |
| Sheet | 4 | of | 4 | | | | | | | | | | | | |
| 154 | DE 199 18 267 A1 | 10/26/2000 | Germany (CA2306376) | | | | | | | | | | | | |
| 155 | CA 2 306 376 | 10/22/2000 | Canada | | | | | | | | | | | | |
| 156 | DE 199 56 382 A1 | 05/31/2001 | Germany (CA2326758) | | | | | | | | | | | | |
| 157 | CA 2 326 758 | 05/24/2001 | Canada | | | | | | | | | | | | |
| 158 | WO 99/63035 A1 | 12/09/1999 | PCT | | | | | | | | | | | | |

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS | | | |
|---|------------|---|---|
| Examiner Initials* | Date No. 1 | Include name of the author (in CAPITAL LETTERS); title of the article (when appropriate); title of the item (book, magazine, journal, serial, symposium, catalog, etc.); date page(s), volume-issue Number(s), publisher, city and/or country where published | T |
| | 159 | Conrad et al., "Hybrid Bacillus Amuloliquefaciens X Bacillus Licheniformis Alpha-Amylases Construction, Properties and Sequence Determinants", European Journal of Biochemistry, Berlin, Germany, Vol. 230, No. 2, XP000960424, pgs. 481-490 (1995) | |
| | 160 | Alpha-amylase, Accession Number P00692, pgs. 1-5 (July 1986) | |
| | 161 | SOFW-Journal, Vol. 123, pgs. 723-731 (1997) | |
| | 162 | Lexikon der Biochemie, Spektrum Akademischer Verlag, Berlin, Vol. 1, pgs 267-271 (1999) | |
| | 163 | Lexikon der Biochemie, Spektrum Akademischer Verlag, Berlin, Vol. 1, pgs 227-229 (1999) | |
| | 164 | Lipman et al., Science, Vol. 227, pgs 1435-1441 (1985) | |
| | 165 | Weber et al., "Formation of genes coding for hybrid proteins by recombination between related, cloned genes in E. coli", Nucleic Acid Res., Vol. 11, pgs 5661-5669 (1983) | |
| | 166 | Tomazic et al., Journal Biol. Chem., Vol. 263, pgs 3086-3091 (1988) | |
| | 167 | Tomazic et al., Journal Biol. Chem., Vol. 263, pgs 3092-3096 (1988) | |
| | 168 | K. H. Wallhauber, "Praxis der Sterilisation, Desinfektion-Konservierung: Keimidentifizierung-Betriebshygiene", 5th Edition, Stuttgart: New York: Thieme (1995) | |
| | 169 | P. Finkel, SOFW Journal, Vol. 122, pg. 543 (1996) | |
| | 170 | Tenside, Vol. 7, pgs. 125-132 (1970) | |
| | 171 | Gomali et al., J. Biol. Chem., Vol. 177, pgs. 751-766 (1948) | |
| | 172 | Handbuch von Fritsch, Sambrook and Maniatis, "Molecular cloning: a laboratory manual", Cold Spring Harbour Laboratory Press, New York (1989) | |

| | |
|--------------------|-----------------|
| Examiner Signature | Date Considered |
|--------------------|-----------------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

*Applicant's unique citation designation number (optional). See Kind's Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

*Enter Office that issued the document, by the two-letter code (WPO Standard ST 3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WPO Standard ST 16 if possible. *Applicant is to place a check mark here if English Language Translation is attached.

Bureau Hour Statement: The form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.